Menlo Park Notebook #204 [N-82-05-26]

This notebook covers the periods May-July 1882, March 1883, and April 1885. The entries are by Edison and John Ott. Some of the entries were witnessed by Charles T. Hughes. Most of the material relates to electric lighting. Included are drawings of armatures and notes and drawings of automatic voltage regulators, lamps, and meters. Included also are notes and drawings of the sextuplex telegraph and notes relating to a process for compressing bran. A few pages appear to have been used by a child for drawing, writing, and math exercises. The book contains 278 numbered pages.

Blank pages not filmed: 8-9, 80-89, 112-119, 126-137, 144-147, 150-151, 154-161, 170-203, 208-237, 256-261, 266-271.

Missing page numbers: 97-98, 109-110, 273-274.

LIBRARY OF THE

BOARD OF PATENT CONTROL,

120 BROADWAY, NEW YORK.

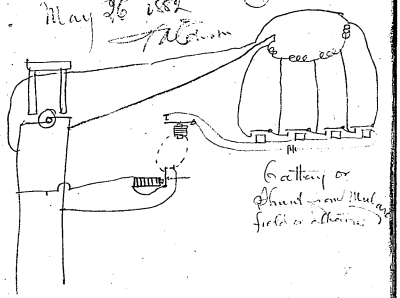
From Library

44 Broad St. city.

Nov 1, 1896

Automatic Regulation

May 26 1882



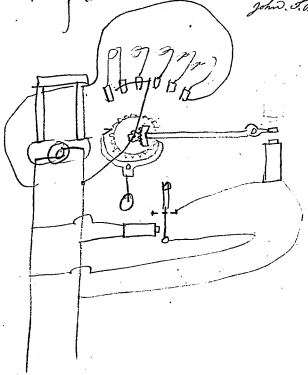
Battery or Ground wire Mul and field or shunt

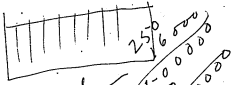
Worked Comp up

October 1882

John F. Otto

Automatic Regulation
May 26 1887 Caldwell
John F. Otto.

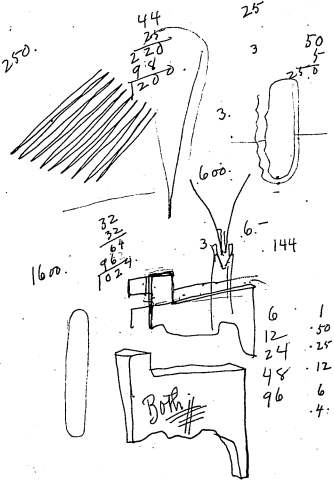




.36 El

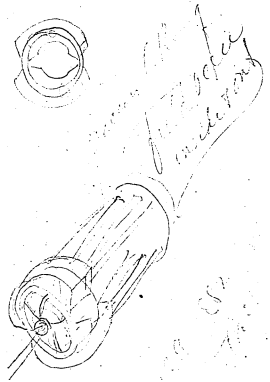
250
6 0000
15-00000
25-00000
40 00000
8.

3
3.
.32.
372.
2.16
.250
12.
56 | 66
20
2
40
2.50
50
12
60
372.
480



Pour Cotton's on paraffine
bfox -

10



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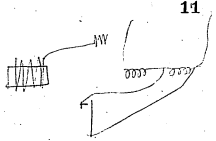


1½ b = 40.

4000.

1000

10

3.

20

1

40.

40

20

1/4

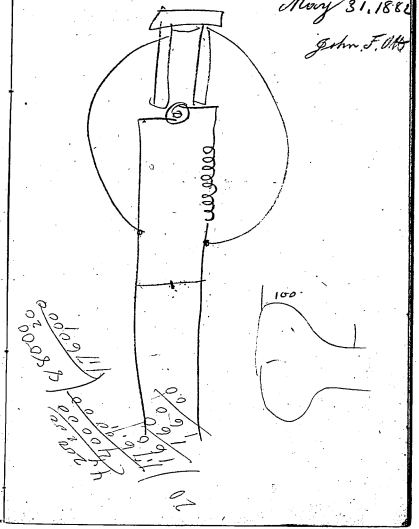
1/5

½

1

May 31, 1882

John F. Otis

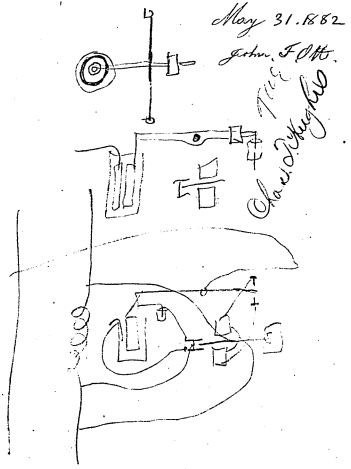


May 31. 1882

John. F. Otto.

Witness

Chas. D. Keyser

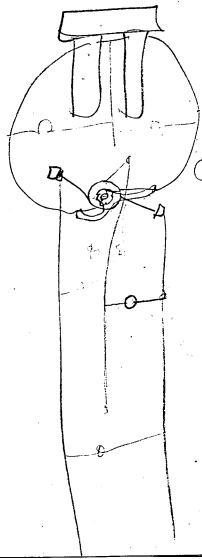


May 31. 1882

John. F. Otto

Witness

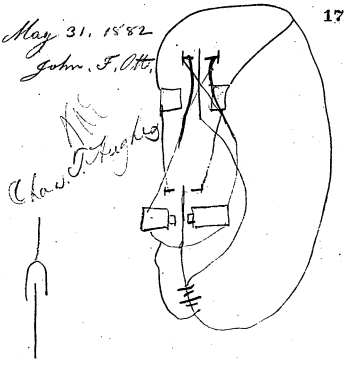
Chas. D. Keyser



#1/2, 2 6-

May 31, 1882
John. F. Ott,

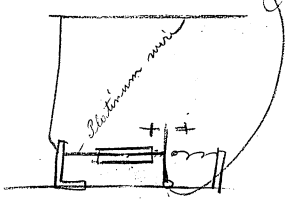
Chas. T. Hughes

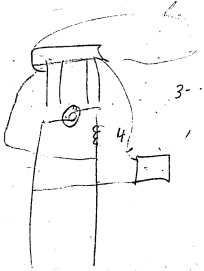


May 31. 1882

John F. Hall

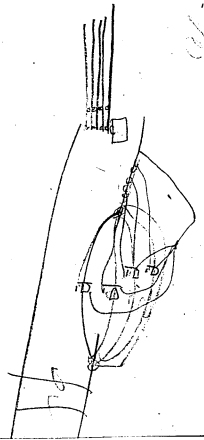
Chas. S. Peirce





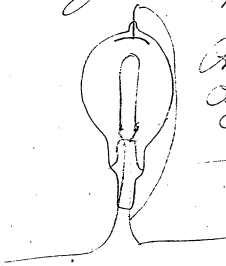
May 31. 1882

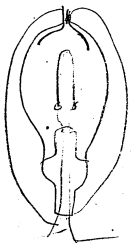
John F. Otis



July 5 1882
TAE

Invent'd
Electrical
Carrying





30 Lamps 11 Less ½ Ext.

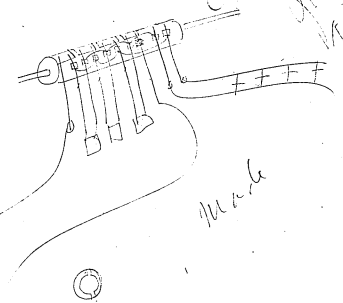
Lamps		Sec
35	= 12 strokes	50
35	12 "	51
		10
40	12 "	40
		39
		39 5
45		34
		34
		34 5
50		29
		29 3
55		27
		27 3

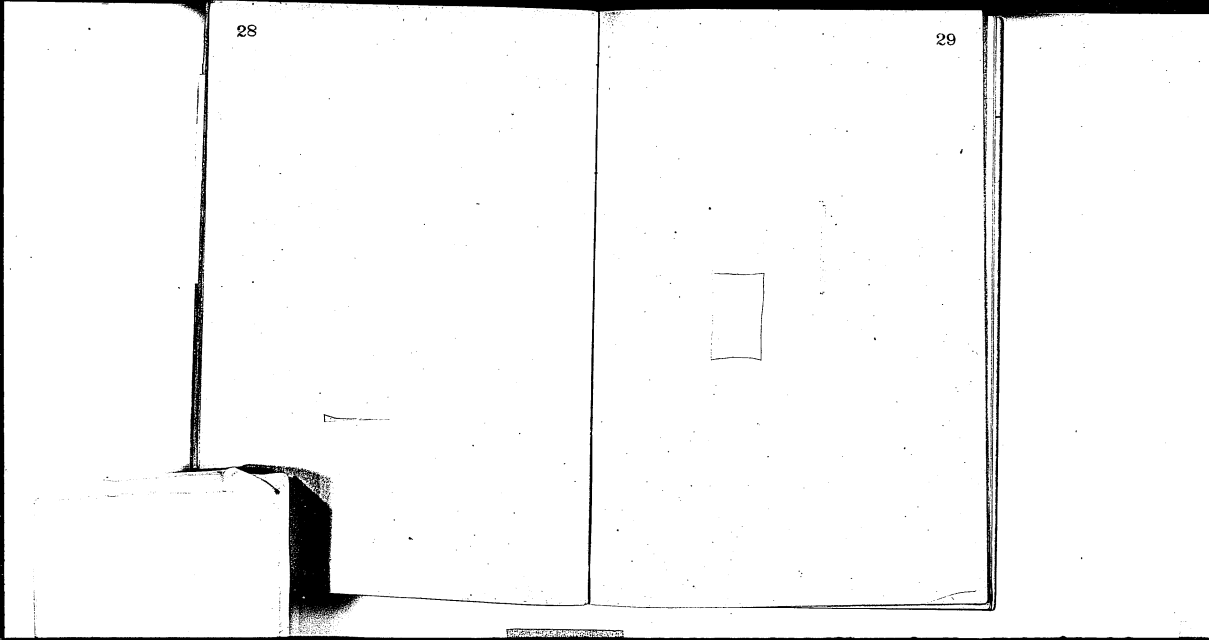
60	24	
	24	
65	21	
	21	3
		2
70	19	
	19	

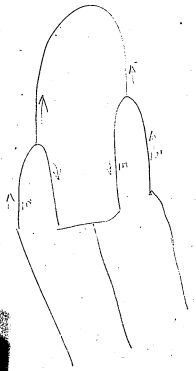
Curve on dash
for night meets
with Beam.

T. A. E.

July 5 1902



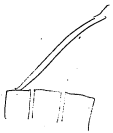


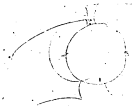


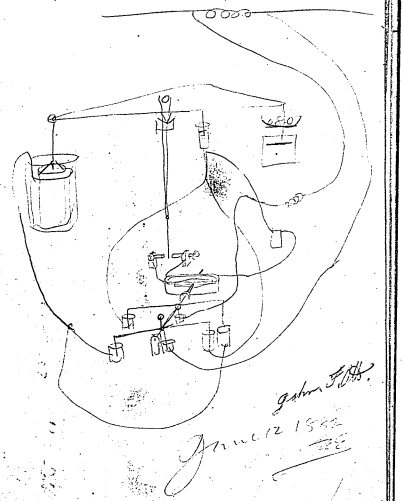
June 12 1880
Tag

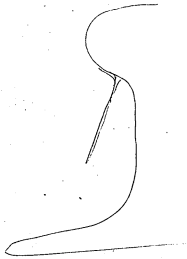
Stretch [illegible] across
on to [illegible]
[illegible]

[illegible]
(Collodion or Natural)
Cellulose in Nitro Benzol
or Nitro [illegible]
the loop + then
[illegible] with a Salina

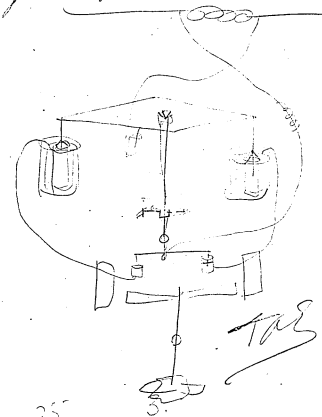








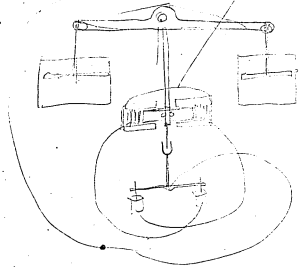
June 12, 1882
John F. Ott

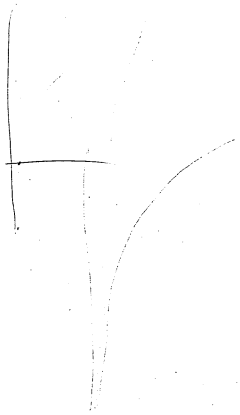


25

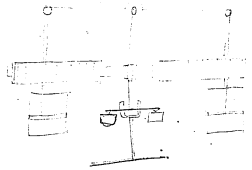
June 12. 1882

John F. Ott.



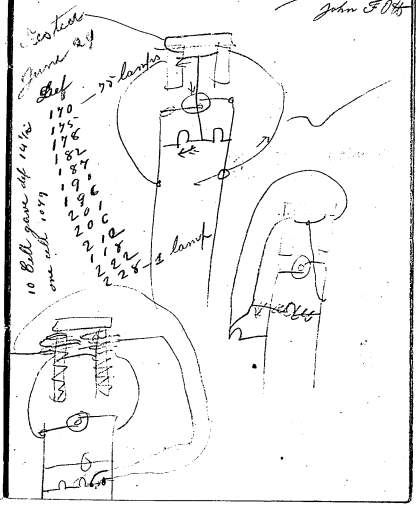


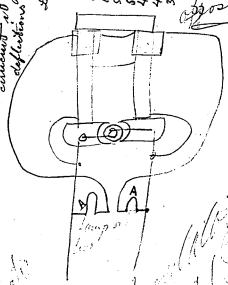
June 12. 1882
John F. Hill.



June 29 1882

John Fo[illegible]

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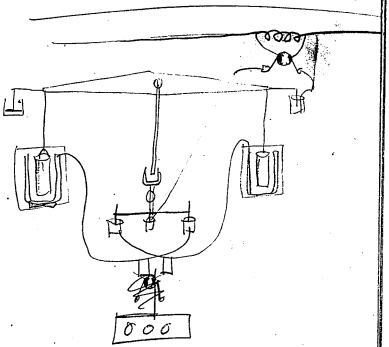


John Otto Marie Kissenberger
July 9 1882
J. F. O.

450 | 1350 (3
1350

450 | 2375 (5
2250
125

450
3
2250
1350
900
2375

250.
10
1500
1500
0
40
3
10

2
250.
1350

450 × 10
16
160.

160 | 500 (3.
480
30
2
3.

35
300
105-00 | 10000. 45
24.

25-0

14

10 $9\frac{1}{2}$ 9.5a

$\frac{5}{28.5-0}$

12

36 to 28.5-0.

36 / 250 : 7 to inch

28 / 250 : 7 / 9.

36
9
324

325
16
1950
325
5-2 0

Continuation of Experiment on page 49,

Connected 4 lights in Multi arc it gave lower candle power, but increased in candle power some raisne as the other.

July 12. 1882

John. F. Ott.

Also tried pressure Magnet in Multi arc. when pressure became to high it closed points that closed single point sounder, closing second winding across Multi arc with Main lines. I found that it almost required the same energy to bring the Magnet down as it took to build it up.

The two hairs on each core measure 5.4 ohms, and I found it nessiary to short circuit this to bring the lights to a dull red

Magnet Cram dashpot

3500 35.

10000 4.

400 1/100

25-00 35-00 100

35-00 25-

1750 0 0

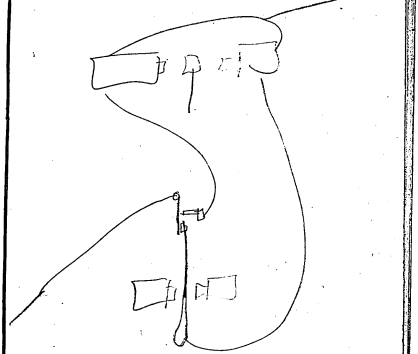
700 0

875- 400

475 3500

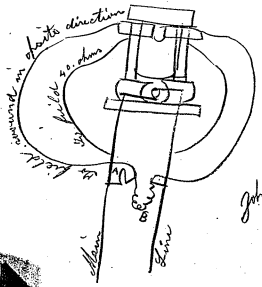
400 | 14 3 3500

215 400 400



July 20, 1882

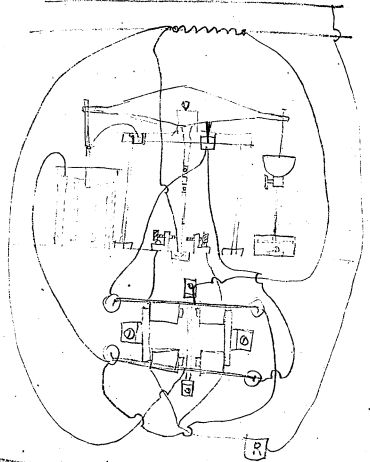
Tested the following connections as current regulators or pressure regulator A. represents group of lamps. B. Coffin shunts or resistance



John F. Gilfillan

$960.113

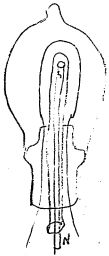
968.70
175.88
31901
2999



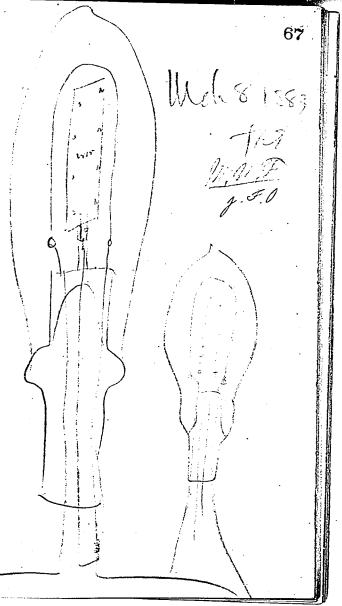
July 20. 1882
John F. Ott.

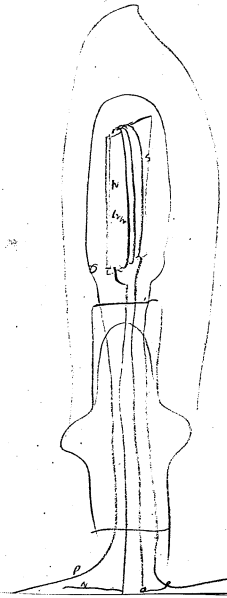
Tested Weber meter and found that the mercury changed its resistance while working, so much as to give one half the reading, after working half day. under this same condition, or in other words same number lamps same pressure

John F. Ott.



March 8 1883
Tate
M. M. F.
[illegible]
[illegible]





Mckinney
Tex
M.M.Pr
g.5.0

Hoff

Lamps March 1883 – Tag passed through Armagh Dragoon with 4 die –

Made lamp with 4 Funnels Lamp Surgeon Ditt.
N – dillo 60th N.F.P dont see much change regular

Have received Mail 61 Have also the Testing wires & instruments but no duty Electrolysis – Can't detect the glass – that fine glass does not attack glass as well as other glasses – not less than our regular Lead glass, and only makes one tenth of these glasses TAG

Mch 8 1883 RE

Have ascertained that the [illegible]
finds in Carbon can be only
done with [illegible] by the
use of a Carbohydrate
Cement = no Hydrocarbon
substances will do -

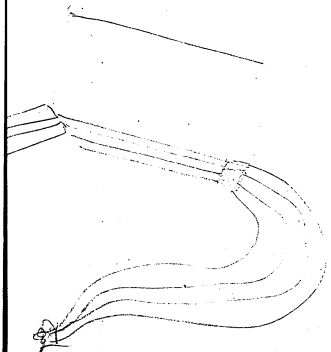
---

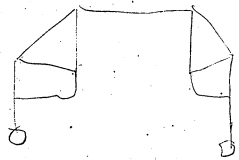
am trying last specimen of
just simple mercurial
meter Electrodes treated
with Hg + Hg chloride
+ Zinc - to appear by
diffused

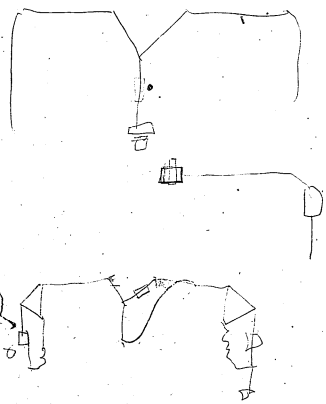
Mod 87 583 Jae

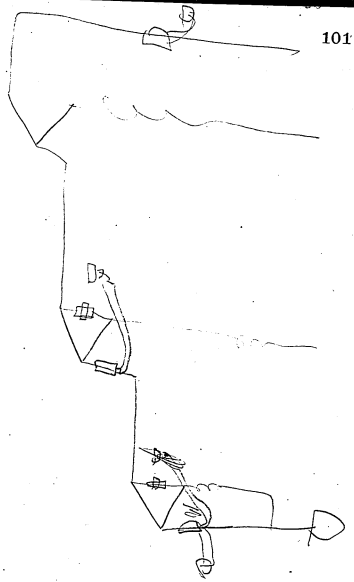
Reading Permafrost and
Low Rise is a great
need of process of
Comprising Brain —.
I propose that the ice
schematic process make
Brain from it back to
ice as before, did (1)
the Chinese Gutenberg
the Brain — the will
release it to pack —

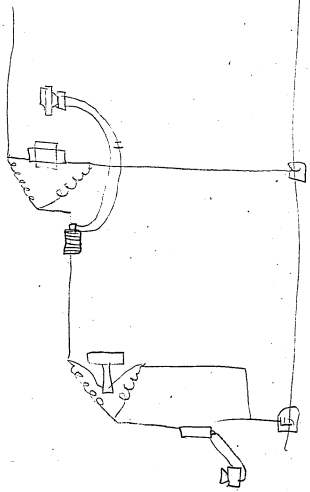
Meteri Mch 8 1883 [illegible] 77

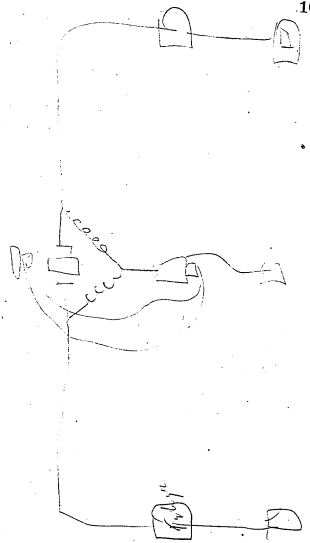


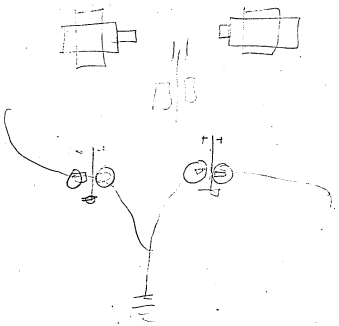


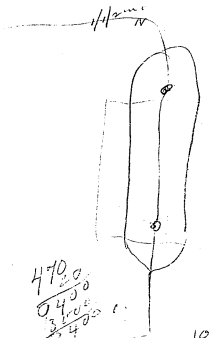




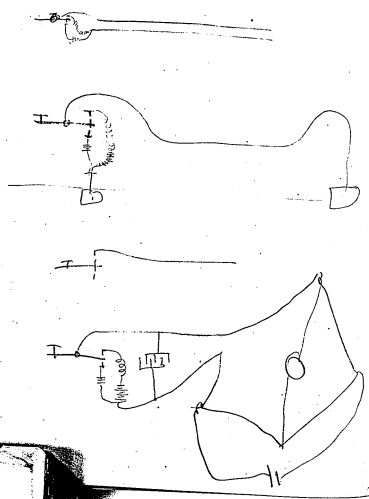


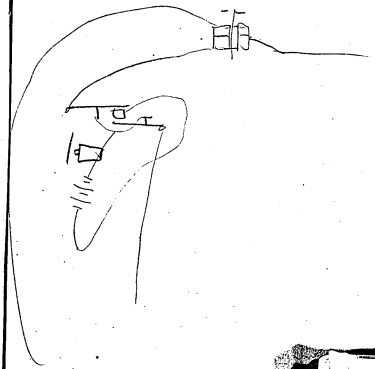


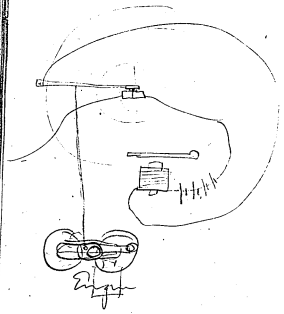


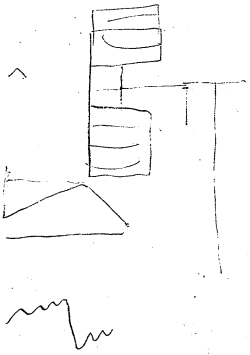


470
1000,
500
375
660
100
500
Petition on
307 5.









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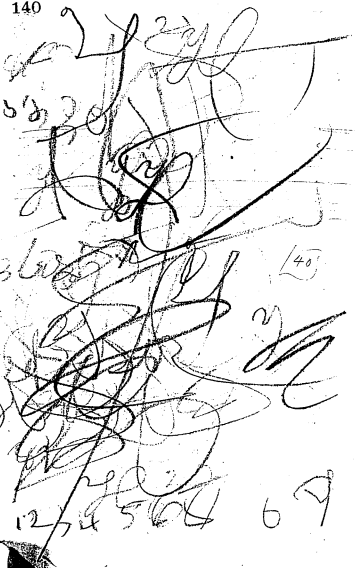

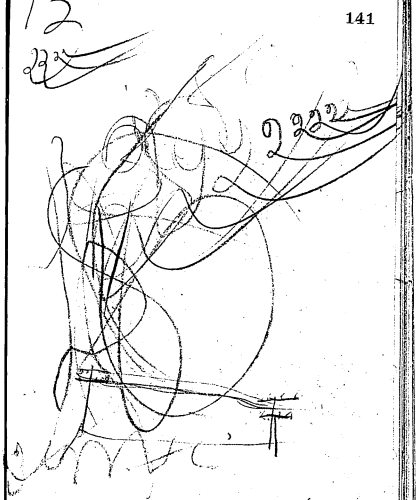

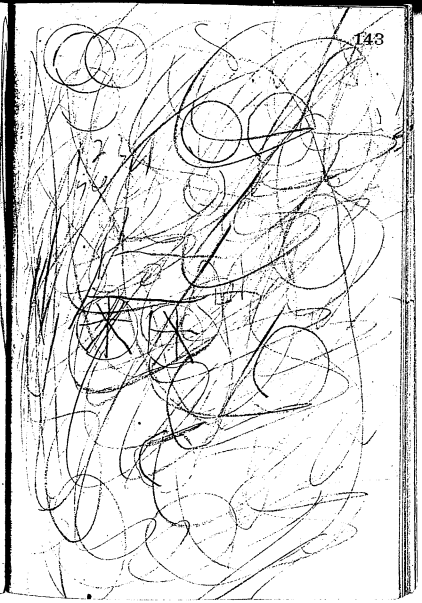

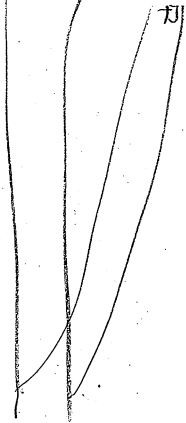

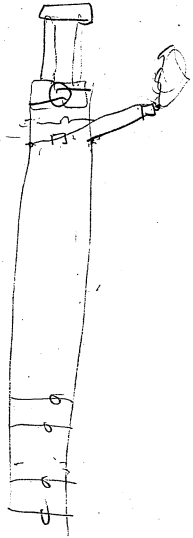

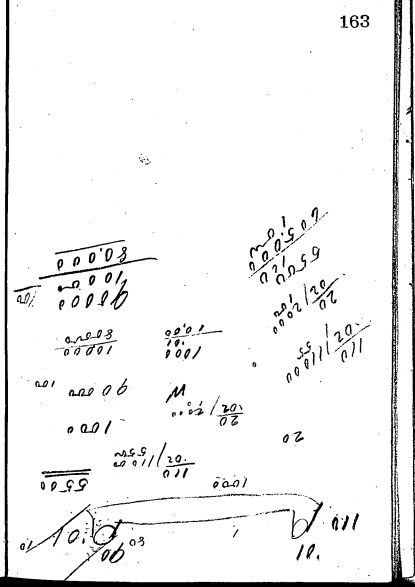

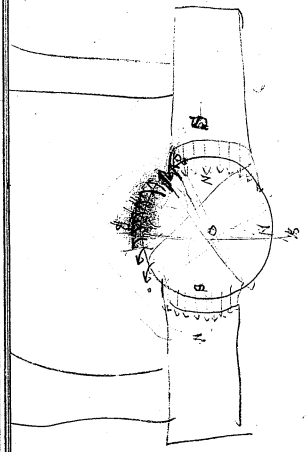

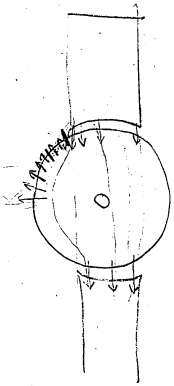

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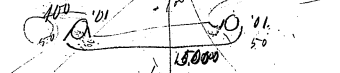

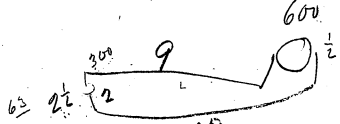

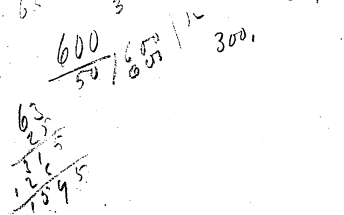

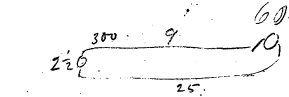

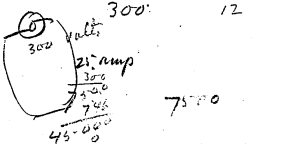

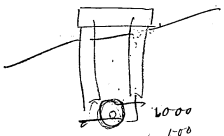
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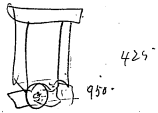
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950
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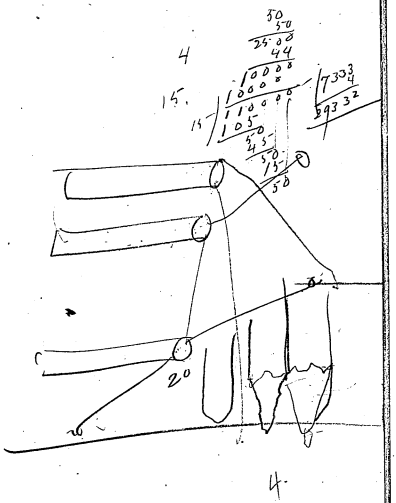
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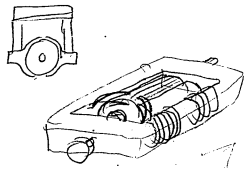


10 inch
4 dia.
8

240.

240.

3.75

April 1 1885

TAS

Have Lamp Co carbonize some plates of 1/2 + 1/2 mixture Oxide manganese precip + hard Carbon with iron as binder plates for Stange

also some porous plates Carbon made with Tar, hard Carbon + baking soda

See if pure black Tin Monoxide + Carbon heated

April 1 1885

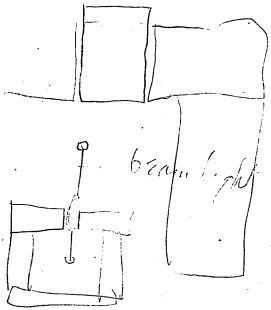
TAS

Copper wire Coiled around it like screw

I

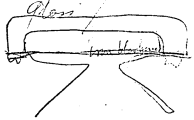
Beam charges surface of the platinum coated with Copper and then taken off by proper reverse currents use telephone

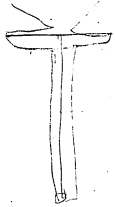
April 1 1883
Tait

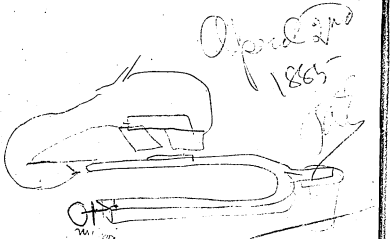


April 1 1883
Tait

Beam light
no weight and
support and

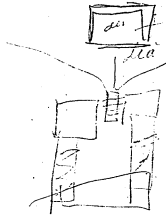






Beam

Cut-right angles



Beam

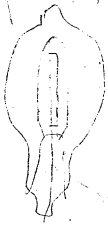
Hand Lathe

April 2 1885

Work Rod

in 1 Candle

Lamp



Lay off

see Page

also magnet

also Engraving

see Card drawer

Carrying Current

April 2 1884
TAE

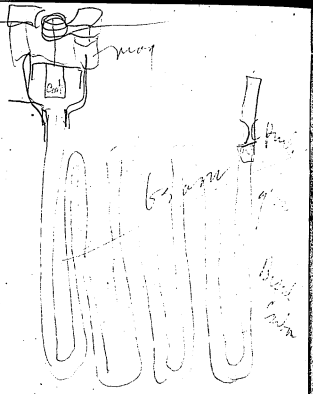
get some Cummins paint pad mix it Make Exhaust high V. C Sec of section — give also of Studyfield Mfg. make & Cummins by So make for Water Closets Time days nights

Look up all the Colored Salts that are in Nat Scales like plumbago by Compression & Rubbing with clay like negative pencils

Red & blue reacts

also by Bromyl make pencils

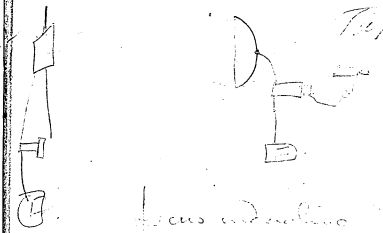
April 2 1884
TAE



a liquid-prism spectroscope

April 2, 1861
Tait

April 2 1861
Tait

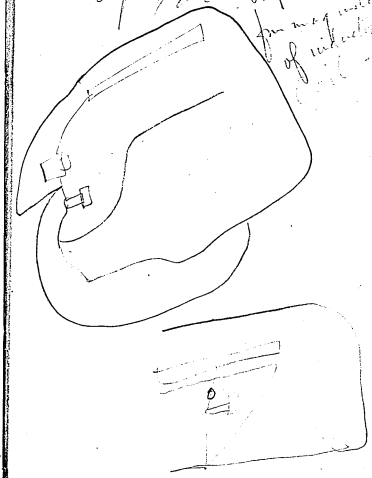


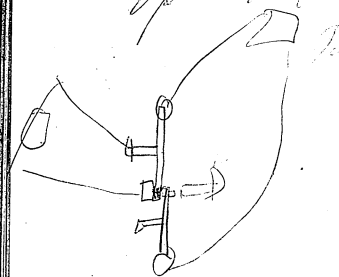
focus of collimator
Cannot see slit
will go on to beam

Quad 666
April 2nd
1885
T.E.

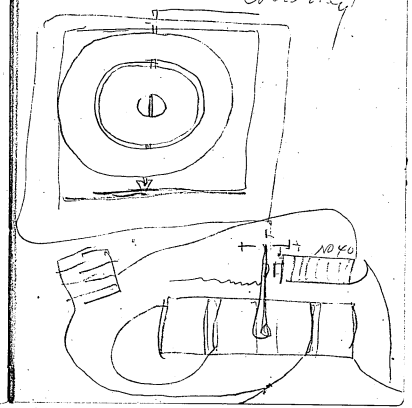
April 2 1885
T.E.

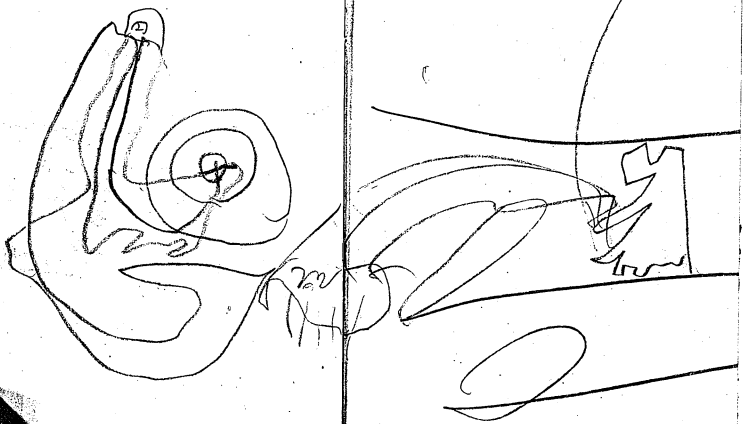
Try self-feeding
for many months
of intermittent





Sextuplex relay
Coils in Cyl





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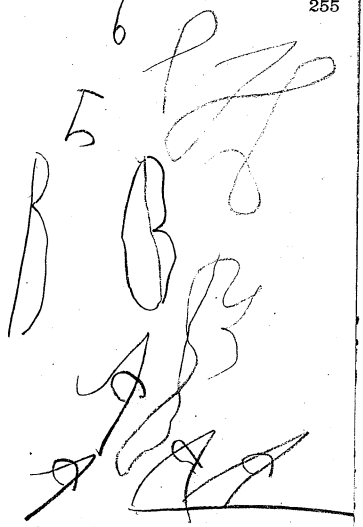
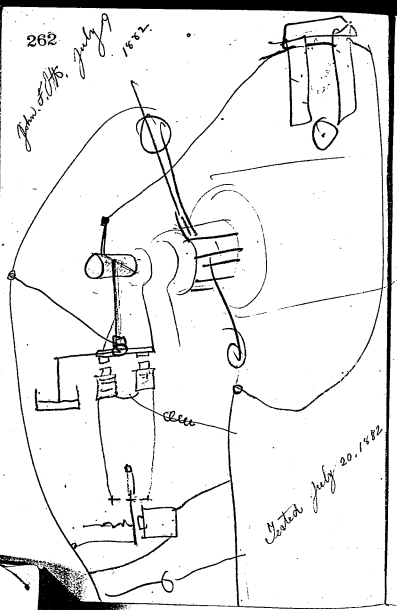
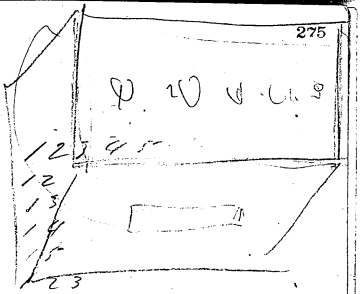




Tested regulator on page 262 and found that brake and brush burn out very fast and also regulated by jerks keeping a constant rise and fall to the lights. this cause was not due to imperfect workmanship, but to natural causes

264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2110 - 2,10 6%

@ 1,10

C. 1,10 — 10%

1` 30 —

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≠ 1,450 1666

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20)24650 20)28332

1232.7≠ 1416

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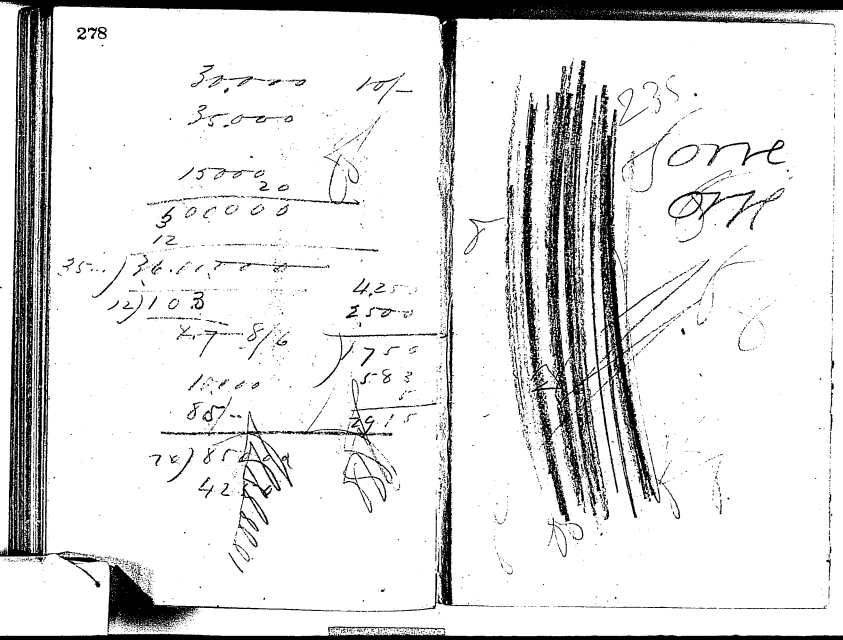
354